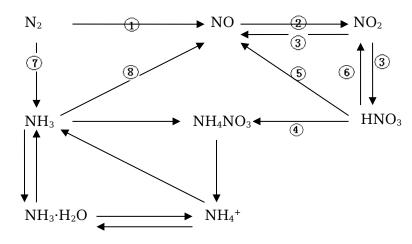


```
\Box\Box2
    □□3
    □□4
    ∏5
    2NH_3
  3Mg + N_2 === \square \square === Mg_3N_2
  1.氯化铵混合亚硝酸钠加热: [2]
                     3. 氨气通过灼热氧化铜:
\mathrm{NH_4Cl} + \mathrm{NaNO_2} \longrightarrow \mathrm{N_2} + \mathrm{NaCl} + 2\,\mathrm{H_2O} \  \, ( 纯度高 ) \\ \hspace{2em} 2\,\mathrm{NH_3} + 3\,\mathrm{CuO} \longrightarrow 3\,\mathrm{Cu} + 3\,\mathrm{H_2O} + \mathrm{N_2}
2. NO
\square\square\square NO \square4 NH<sub>3</sub>\square5 O<sub>2</sub> \rightleftharpoons 4 NO\square6 H<sub>2</sub>O
\label{eq:cubic_condition} $$ \square \square \square \square \square 3 \ Cu \square 8 \ HNO_3 \rightarrow 3 \ Cu(NO_3)_2 \square 2 \ NO \uparrow \square 4H_2O $
```

```
3. NO_2
\mathsf{NO}_2
             \square\square\square\square\square\square \quad 2NO + O_2 == 2NO_2
             \Pi_2O = \Pi_3O = 3NO_2 + H_2O = = 2HNO_3 + NO = 0
             \square\square\square\square\square 2NO_2 + 2NaOH === NaNO_3 + NaNO_2 + H_2O
                                                                 \mathsf{NO}_2 \mathsf{NO}_2 \mathsf{NO}_1 \mathsf{NO}_2 \mathsf{NO}_1 \mathsf{NO}_2 \mathsf{NO}_2 \mathsf{NO}_1 \mathsf{NO}_2 \mathsf{NO
             000\mathrm{N}_2\mathrm{O}
4.\ \square
               NH_3 \cdot H_2O \rightleftharpoons NH_4^+ + OH^-
             \square\square\square 2NH_3 + H_2SO_4 = \square NH_4\square_2SO_4
             5. [][][][]
              (1) 00000000000
              NH_4HCO_3 \triangle NH_3\uparrow + H_2O\uparrow + CO_2\uparrow
              NH_4Cl \longrightarrow NH_3\uparrow + HCl\uparrow
              (2)
```

```
NH_4Cl \sqcap NaOH == \triangle = NaCl + NH_3 \uparrow + H_2O
   2 00:000000000000
   \square\square\square Ca\squareOH\square_2 + 2NH<sub>4</sub>Cl\_\triangle CaCl<sub>2</sub> + 2NH<sub>3</sub>↑ + 2H<sub>2</sub>O
   \sqcap\sqcap\sqcap\sqcap\sqcap(CaO \sqcap NaOH \sqcap\sqcap\sqcap\sqcap)
6. ∏∏
  Cu \square 4HNO_3(\square) ==== Cu\square NO_3\square_2 + 2H_2O + 2NO_2 \uparrow
   3Cu \square 8HNO_3(\square) ==== 3Cu\square NO3\square_2 + 4H_2O + 2NO\uparrow
   Fe \square 6HNO<sub>3</sub>(\square) ==\triangle== Fe\squareNO<sub>3</sub>\square3 + 3H<sub>2</sub>O + 3NO<sub>2</sub> \uparrow
   Fe \square 4HNO<sub>3</sub>(\square) ==== Fe\squareNO<sub>3</sub>\square3 + 2H<sub>2</sub>O + NO↑
   Al \square 6HNO<sub>3</sub>(\square) ==\triangle== Al\squareNO<sub>3</sub>\square3 + 3H<sub>2</sub>O + 3NO<sub>2</sub> ↑
  Al \ \square \ 4HNO_3(\square) \ \ ==== \ Al \square NO_3\square_3 \ + \ 2H_2O \ + \ NO \ \uparrow
  C \square 4HNO_3(\square) == \triangle == CO_2 + 4NO_2 \uparrow + 2H_2O
```


$$C + 4HNO_3(\square) = \triangle = 4NO_2 \uparrow + CO_2 \uparrow + 2H_2O$$



①
$$N_2 + O_2 = 0000 = 2NO$$

$$2NO + O_2 == 2NO_2$$

$$3NO_2 + H_2O = = 2HNO_3 + NO$$

- ⑥ □□□ □□□□□□ NO

8
$$NH_3 + 5O_2 \stackrel{\frac{\# \ell \ell \tilde{M}}{\triangle}}{\triangle} 4NO + 6H_2O$$